

Db : : : : :
21 GlnArgAlaLeuAlaLysGlyLeuLysLeuLeuPyrProGluArgValAlaLeuLysSer 40
Qy GCCCATTTATGACGAGGCGCGCTGGAAGAAAAACCGTTGCCACCTTATGAGAG 385
Db : : : : :
41 CysAlaIleMetGluGlyAlaArgGluGly---LysThrValAlaGlnLeuMetSerGlu 59
Qy 386 TGCATGACATTTTGAAGAAAAAGATGAGTATGCCCGGGGGGGAATATGTTCCCGAT 445
Db 60 G1yArgThrValLeuThrAlaGluGlnValMetGluGlyValProGluMetIleLysasp 79
Qy 446 CTAGGTGTAGAACCCACTTTCTGATGTGACGAAACTGTACTGTGATGAGCCCATC 505
Db : : : : :
80 ValGlnValGluCysThrPheProaspGlyThrLysLeuValSerIleHisSerProIle 99

RESULT 5

US-08-432-697-23
Sequence 23, Application US/08432697
Patent No. 6248330

GENERAL INFORMATION:

APPLICANT: Labigne, Agnes
APPLICANT: Sauerbaum, Sebastien
APPLICANT: Ferrero, Richard L.
APPLICANT: Thiberge, Jean-Michel
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pinegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/432,697
FILING DATE: 02-MAY-1995
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 03495, 0137-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
1-08-432-697-23

Alignment Scores:

ed. No.: 7,61e-17 Length: 100
ore: 261.50 Matches: 56
cent Similarity: 73.00% Conservative: 17
at Local Similarity: 56.00% Mismatches: 26
ery Match: 5.08% Indels: 1
Gaps: 3

-09-904-994b-1 (1-2883) x US-08-432-697-23 (1-100)

206 GTGAAATCAACACCAAGCAAGAAAGTTCTTGTATATTATGCGGCGAAGTGGCT 265

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Db : : : : :
21 GlnArgAlaLeuAlaLysGlyLeuLysLeuLeuPyrProGluArgValAlaLeuLysSer 40
Qy 326 GCCCATTTATGACGAGGCGCGCTGGAAGAAAAACCGTTGCCACCTTATGAGAG 385
Db 41 CysAlaIleMetGluGlyAlaArgGluGly---LysThrValAlaGlnLeuMetSerGlu 59
Qy 386 TGCATGACATTTTGAAGAAAAAGATGAGTATGCCCGGGGGGGAATATGTTCCCGAT 445
Db 60 G1yArgThrValLeuThrAlaGluGlnValMetGluGlyValProGluMetIleLysasp 79
Qy 446 CTAGGTGTAGAACCCACTTTCTGATGTGACGAAACTGTACTGTGATGAGCCCATC 505
Db : : : : :
80 ValGlnValGluCysThrPheProaspGlyThrLysLeuValSerIleHisSerProIle 99

RESULT 6

US-08-466-248-23
Sequence 23, Application US/08466248
Patent No. 6258359

GENERAL INFORMATION:

APPLICANT: Labigne, Agnes
APPLICANT: Sauerbaum, Sebastien
APPLICANT: Ferrero, Richard L.
APPLICANT: Thiberge, Jean-Michel
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pinegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,248
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/447,177
FILING DATE: 19-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: 03495, 0137-02000

ATTORNEY/AGENT INFORMATION:

NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 03495, 0137-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-466-248-23

APPLICANT: Londono-Arcila, Patricia
 TITLE OF INVENTION: Use of salmonella vectors for
 TITLE OF INVENTION: vaccination against helicobacter infection
 FILE REFERENCE: 06132/060001
 CURRENT APPLICATION NUMBER: US/09/431, 705
 CURRENT FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 19
 LENGTH: 4824
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Includes sequences from Helicobacter pylori,
 OTHER INFORMATION: Salmonella typhimurium, and Escherichia coli
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 LOCATION: (3893)...(3934)
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 LOCATION: (4031)...(4285)
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 LOCATION: (4289)...(4300)
 NAME/KEY: CDS
 LOCATION: (4304)...(4408)
 NAME/KEY: CDS
 LOCATION: (4412)...(4471)
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 LOCATION: (4592)...(4669)
 NAME/KEY: CDS
 LOCATION: (4673)...(4711)
 NAME/KEY: CDS
 LOCATION: (4715)...(4774)
 NAME/KEY: CDS
 LOCATION: (4784)...(4824)
 US-09-431-705-19

Alignment Scores:
 Pred. No.: 2, 9e-70 Length: 4824
 Score: 610.50 Matches: 118
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 Best Local Similarity: 52.688 Mismatches: 62
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 DB: 4 Gaps: 1

US-09-904-994b-2 (1-226) x US-09-431-705-19 (1-4824)

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 QY 41 AlaHLeuMetAspGluAlaArgAGLYsLYsPheThValAlaGlnLeuMetGluGlu 60
 DB 206 GCCCATATATGAGAGAGAGAGAGCTGCTGTAAGAACTGCGGCTGATTTGATGCAAGAA 265
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 DB 266 GGGCGGCACTCTTTTAAACCAAGATGATGATGATGAGGCGTGCAGCATGATCATGAA 325
 QY 81 LeuGlyValGluAlaThrPheProAspGlyThrLYsLeuValThrValAsnTrpProIle 100
 DB 326 GGGGATATGAGAGCGGATGTTTCTGATGAGACTGAACCTGTAACCTGATACCCCTATT 385
 QY 101 GluProAspGluHisPheLYsAlaGlyIuValLYsPheGlyCysAspLYsAspIleGly 120
 DB 386 GAGGCCATGATGTAATTAAGTTCTGATGAGTTG--TTCTTAAAAAATGAGACATCACT 442

QY 121 LeuAsnAlaGlyLYsGluValThrGlnLeuGluValThrAsnGluLYsProLYsSerLeu 140
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 QY 181 GlnThrArgLYsValGlnLeuIleProLeuGlyLYsSerLYsValIleGlyMetAsn 200
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 QY 201 GlyLeuValAsnAsnIleAlaAspGluArgHisLYsHisLYsAlaLeuAspLYsAlaLYs 220
 DB 683 GCATTGCTTGATGACAGACAGACAGACAGAAACCAAAATTCCTTTACACAGAGCTTAA 742
 QY 221 SerHisGlyPhe 224
 DB 743 GAGCGTGGTTTT 754
 RESULT 5
 US-08-467-822-19
 Sequence 19, Application US/08467822
 Patent No. 5843460
 GENERAL INFORMATION:
 APPLICANT: Labigne, Agnes
 APPLICANT: Sauerbaum, Sebastian
 APPLICANT: Ferrero, Richard L.
 APPLICANT: Thibierge, Jean-Michel
 TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
 TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
 TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 TITLE OF INVENTION: POLYPEPTIDES
 NUMBER OF SEQUENCES: 44
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 ADDRESSEE: Dunner
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/467,822
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/447,177
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 435
 APPLICATION DATA:
 APPLICATION NUMBER: US 08/432,697
 FILING DATE: 02-MAY-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 03495, 0137-02000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 408-4000
 TELEFAX: (202) 408-4400
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:

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/ LENGTH: 2619 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: 31..36
/ OTHER INFORMATION: /standard_name= "Shine-Dalgarno
/ OTHER INFORMATION: sequence."
/
/ US-08-467-822-19
/
/ Alignment Scores:
/ Pred. No.: 1,3e-65 Length: 2619
/ Score: 572.50 Matches: 113
/ Percent Similarity: 69.64% Conservative: 43
/ Best Local Similarity: 50.45% Mismatches: 67
/ Query Match: 48.48% Indels: 1
/ DB: 2 Gaps: 1
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/ US-09-904-994b-2 (1-226) x US-08-467-822-19 (1-2619)
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/ 21 ArglyuArglyuValaglyleuTyrralagyluValala 40
/ 103 GAAGAACCTGTCGGCGGTGTGTGAACCTAATTAACCAAGCGGTGCGCTCATTAAGC 162
/ 41 AlaHilIemeArpGluAlaArGlylylyleuTyrralagyluValala 60
/ 163 GGGCGGTGATGAAAGCGCGCTGATGATTAATTAAGCGGTGCGGTGCGCAAGAA 222
/ 61 CyMethIAsPheleuTyrralagyluValala 80
/ 223 GCGAGGACTGCGCTTAAGAACTAGACAGTTATCTCATTAATGCGGCAATTGGCA 282
/ 81 LeuglyValaglyuValaglyleuTyrralagyluValala 100
/ 283 GTGGGATGAGCTAATCTCCCGATGAAACCAAGCTTGAATCACTCCGCTA 342
/ 101 GluProArpGluHilIAsPheleuTyrralagyluValala 120
/ 343 GAGGATTAAGCGCAATTAAGCGCGGTGCGGTGCGGTGCGGTGCGGTGCGGTGCGGT 399
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/ 141 HlIAsValaglySerHilIAsPheleuTyrralagyluValala 160
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DB 700 GAAAGGTTT 711
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/ RESULT 6
/ US-08-432-697-19
/ Sequence 19, Application US/08432697
/ Patent No. 6248330
/ GENERAL INFORMATION:
/ APPLICANT: Labigne, Agnes
/ APPLICANT: Sauerbaum, Sebastian
/ APPLICANT: Perre, Richard L.
/ APPLICANT: Thiberge, Jean-Michel
/ TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
/ TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
/ TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
/ NUMBER OF SEQUENCES: 44
/ CORRESPONDENCE ADDRESS:
/ ADDRESSER: Finnegan, Henderson, Farbow, Garrett &
/ STREET: 1300 I Street, N.W.
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: USA
/ ZIP: 20005-3315
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/432,697
/ FILING DATE: 02-MAY-1995
/ CLASSIFICATION: 424
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 03495.0137-00000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (202) 408-4400
/ TELEFAX: (202) 408-4400
/ INFORMATION FOR SEQ ID NO: 19:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2619 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: 31..36
/ OTHER INFORMATION: /standard_name= "Shine-Dalgarno
/ OTHER INFORMATION: sequence."
/
/ US-08-432-697-19
/
/ Alignment Scores:
/ Pred. No.: 1,3e-65 Length: 2619
/ Score: 572.50 Matches: 113
/ Percent Similarity: 69.64% Conservative: 43
/ Best Local Similarity: 50.45% Mismatches: 67
/ Query Match: 48.48% Indels: 1
/ DB: 3 Gaps: 1
/
/ US-09-904-994b-2 (1-226) x US-08-432-697-19 (1-2619)
/
/ 1 VallyeLeuthProlygunglulysPheleuleuTyrralagyluValala 20
/ 43 ATGAACCTAACCGCTTAAGAACTAGACAGTTATCTCATTAATGCGGCAATTGGCA 102
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 Qy 302 ThrIleProTYrThrIleAsnThrValAlaGlnHisLeuAspMetLeuMetThrCysHis 321
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 Qy 402 LysArgTYrIleSerLysTYrThrIleAsnProAlaLeuThrHisGlyValSerGluTYr 421
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 Db 2132 GCGCGAAGAACCAACATGATCATCAAGCGGATTCATTCGTTAAGCAATTTGGCGAT 2191
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 Db 2252 GGTAAAGCTAAATACAGATCAATCATCTTTGTGTCTCAAGCGGCTTATACAAAGGC 2311
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Qy 562 AlaGlnArgTYrThrPhePhe 568
 Db 2492 GCGCACTCTTACATTTTC 2512
 RESULT 5
 US-08-467-822-19
 Sequence 19, Application US/08467822
 Patent No. 5843460
 GENERAL INFORMATION:
 APPLICANT: Labigne, Agnes
 APPLICANT: Sauerbaum, Sebastien
 APPLICANT: Ferrero, Richard L.
 APPLICANT: Thiberge, Jean-Michel
 TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
 TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
 TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 NUMBER OF SEQUENCES: 44
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 ADDRESSER: Dunner
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/467,822
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/447,177
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/432,697
 FILING DATE: 02-MAY-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 03495, 0137-02000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 408-4000
 TELEFAX: (202) 408-4400
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2619 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 31..36
 OTHER INFORMATION: /standard name= "Shine-Dalgarno
 OTHER INFORMATION: sequence."
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 LOCATION: 756..759
 OTHER INFORMATION: /standard name= "Shine-Dalgarno
 OTHER INFORMATION: sequence."
 US-08-467-822-19
 Alignment Scores:
 Pred. No.: 5,14e-241 Length: 2619
 Score: 2244.00 Matches: 411

Percent Similarity: 85.01%
 Best Local Similarity: 72.49%
 Query Match: 74.82%
 DB: 2

Conservative: 71
 Mismatches: 85
 Indels: 0
 Gaps: 0

US-09-904-994b-3 (1-568) x US-08-467-822-19 (1-2619)

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 DB 832 CTGGGACACCTGATTTGATCTTAAGATGAGATATTCACCACTTTATGTGTAAGAG 891
 QY 42 LeuLYsPheGLYAlaGLYUlyrThrlaargGLUglYwecGLYglInserAsnSerProAsp 61
 DB 892 ATCAATTTGGGGCGGTAAATATCTCGTATGGATGAGTCAACCAATAGCCCTTAC 951
 QY 62 GluAsnThrlaPleuPleuValleThraPnaLameticlelleaPryrThrGLYlleTYr 81
 DB 952 TCTTATGAATTTAATTTGATGTGTCTCACTACGCTTGTGATCTTACGGGCAATTAC 1011
 QY 82 LysAlaAspTlleGLYlleLYsAsnGLYUlyleHsaGLYlleGLYUlyValaAsnLYs 101
 DB 1012 AAAGCCGACATTTGGATTTAAAGCGCAAGATTCAGAGCATTTGCAAGGCGCAATAG 1071
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 QY 122 GLYGLYGLYwecTlleThraGLYGLYlleAsPserHlsthrlPheLeuSerPro 141
 DB 1132 GCTGAGGGCTGTGATGTGAACCGGTGGTGCATGCATATTCATCTTATCTCTCC 1191
 QY 142 GlnGlnPheProHlaLeuAlaAsnGLYValaThrThrePheGLYGLYThrGLY 161
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 QY 162 ProValaPrglYThraPnaLameticlelleThrProGLYUlyrPnaLeuUnHsaPmer 181
 DB 1252 CCGCGGATGGCGAGATGCGACCACTCATCTCCGAGCGGCTATCTTAAGATAG 1311
 QY 182 LeuLYsAlaLagLUlyrSerMetAsnValaGLYrPheLeuGLYUlyrYAsnSer 201
 DB 1312 TTGCGTGACGGCCGAAGATAGCCCATGATCTTGTGGCTTAAGGGAATGTCT 1371
 QY 202 SerLYsLYsGLUleuValaGLUglYValaGLYAlaLleGLYrPheLYsLeuHsaGLU 221
 DB 1372 TACGAACCTCTTTACCGCATGATGAAGCAAGGGCGATGGTTTAAATCCAGAA 1431
 QY 222 AspTPrGLYThrThrProSerAlaLleAsPserCYsLeuSerValaLlaAsPrglYUlyrAsp 241
 DB 1432 GACTGGGAGAGCACTGACGATTTACCACTGCTCTCAATGTCCGCAATGATAGAT 1491
 QY 242 ValGlnValaCYsleHsaPserThraPnaLameticlelleTYrValaAsPrglYUlyr 261
 DB 1492 GTGCAAGTGGCTATCCACCGATACCTTAACGAGCGGGCTGTGAAGAACACCTTA 1551
 QY 262 AsnAlaMetAsnLYsArgAlaLleHsaLlyrHslleGLUglYAlaGLYGLYUlyHs 281
 DB 1552 GAGGCAATGGCGGCGACATCCATACCTTCACACTAAGGGGTGGGGGAGAC 1611
 QY 282 SerProAspValleThraPnaLagLUlyrLeuAsnLleLeuProSerSerThrThrPro 301
 DB 1612 GCTCCAGATCTTAAATGCGAGGGAATTAACATTTTACCGGCTCTACTAACCG 1671
 QY 302 ThrlaPrglYThrlaPnaLagLUlyrLeuHsaPmerLleuMetLlyrCYsHs 321
 DB 1672 ACCATTCCTTCAACAAACATGAGAGCGAGACATGACATGTTAATGAGTGCAC 1731
 QY 322 HlaLeuAspLYsArglleargGLUAsPserHlaPheSerInserArglleargProGLY 341

DB 1732 CACTTGATTAAGATATCAAGAGATGTGAGTTGGCATTCGAGATTCGCCCCCA 1791
 QY 342 SerTlleAlaLagLUlyrAsPvalleUnHsaPmerGLYValleAlaMetThrSerSerAsp 361
 DB 1792 ACTATCGCGCTGAAGCACTTCATGATGAGATGAGGATCTTTTATCATCACGATCCGAC 1851
 QY 362 SerGlnAlaMetGLYArgAlaGLYUlyrValleProArgThrTPrglInThraAsPrgly 381
 DB 1852 TCTGAGCTATGGAGCGATGAGCGATGATCAACGCACTTGGCGACAGACAGACAA 1911
 QY 382 AsnLYsLYsGLUleuPrglYUlyrLeuPrglYUlyrAsPnaAsPnaPheArglle 401
 DB 1912 AACAAAGAGATTTGGCGCTTGAAGAGAGAAAGAGCAATACAGCAATCCGCAATC 1971
 QY 402 LysArgTyrTlleSerLYsThrlaAsPnaLleuThrlaGLYValaSerGLYUlyr 421
 DB 1972 AAAGCTACATCTCTAATATACCATCAACCCCGGATTCGGGATTTGATCTTCACTAT 2031
 QY 422 TlleGLYSerValaGLUglYUlyrleAlaAsPleuValaLTPnaPnaLlaPhePhe 441
 DB 2032 GTGGGCTGTGAGAGTGGCAATACCGGACCTGTGTGTGATGAGTCCGGCTTTCTT 2091
 QY 442 GLYValaAsPrglYUlyrleAlaLleLYsGLYGLYwecValaLlaPheSerGLUwecGLYAsp 461
 DB 2092 GCGATTAAGCCCAATATGATTTAAGGCGGATTTATGGCTCTCTCAATGGCGCAT 2151
 QY 462 SerAsnAlaSerValProHlaPnaLameticlelleThrProValTYrArgLlePheGLYHs 481
 DB 2152 GCGAATGCTGTATCCCAACCCCTCAGCCGCTTATACGATGAATGTTGACACCAT 2211
 QY 482 GLYUlyrAlaLYsPheAsPThrSerTlleThrPheValSerLYsValaLlaTYrGLUAsnGLY 501
 DB 2212 GGGAAAGAAATTCAGACCAATATCATCTTGTGTCCCAAGGCGCTTACAGAGCAGG 2271
 QY 502 ValLYsGLYUlyrLeuGLYUlyrGLUargGLUValleuProValLYsAsnCYsArgAsnLle 521
 DB 2272 ATCAAGAGAACTAGGCGCTATGATCGCGGACCGCGAGTGAAGAACTGTGCAATATC 2331
 QY 522 ThrlaLYsAsPrglYUlyrPheAsnAsPrglYThraLysLleThraLlaAsPrglYUlyr 541
 DB 2332 ACTTAAAGAGACCTCAATTCACAGATGTGACGCAATTTGATGTCAACCTCGAACC 2391
 QY 542 PheGLYAlaPheValaAsPrglYUlyrLeuCYsThrSerLYsProHlaSerGlnValaProLeu 561
 DB 2392 TATAGGTGAAGGTGATGCAAGAGTAACTCTTAAAGCAGAGATGAATGAGCCTTA 2451
 QY 562 AlaGlnArgTyrThrPhePhe 568
 DB 2452 GCGCACTTATTAATTTGTTT 2472

RESULT 6
 US-08-432-697-19
 Sequence 19, Application US/08432697
 Patent No. 624830
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 APPLICANT: Thibierge, Jean-Michel
 TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
 TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
 COMPOSITIONS: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 TITLE OF INVENTION: POLYPEPTIDES
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